

PROGRAMMABLE ANALOG-TO-DIGITAL CONVERTER

ABSTRACT

Systems and methods are disclosed that employ a programmable analog-to-digital converter system. A programmable analog-to-digital converter system comprises a quantizer assembly and a configuration control. The quantizer assembly is configurable to provide at least one quantization stage. A given quantization stage converts an associated analog signal into an associated digital output signal. The configuration control selects among a plurality of configurations and configures the analog-to-digital converter system according to the selected configuration. The quantizer assembly is configurable to provide a plurality of quantization stages arranged in series in a first configuration, or to provide a single quantization stage in a second configuration.